SEQUENCE LISTING

<110> Wallis, Nicola G.
Burnham, Martin K. R.

<120> MurC

<130> GM10025

<140> US 09/103,287
<141> 1998-06-23

<150> US 60/052,720
<151> 1997-07-03

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<170> FastSEQ for Windows Version 4.0

<210> 1
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<212> DNA
<213> Staphylococcus aureus

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gagaactacg tatttacaga agttgctctt agaaataagg ggataaaaat attaccattt 180
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tctacaacag gtttattatc acatgttatg aatggtgata aaaagacttc atttttaatt 420
ggtgatggca caggtatggg attgcctgaa agtgattatt tcgcttttga ggcatgtgaa 480
tatagacgtc acttttaag ttataaacct gattacgcaa ttatgacaaa tattgatttc 540
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cataatgtta aaaaaggtat tattgcttgg ggtgatgatg aacatctacg taaaattgaa 660
gcagatgttc caatttatta ctatggattt aaagattcgg atgacattta tgctcaaaat 720
attcaaatta cggataaagg tactgctttt gatgtgtatg tggatggtga gttttatgat 780
cacttcctgt ctccacaata tggtgaccat acagttttaa atgcattagc tgtaattgcg 840
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ggtgttaaac gtcgtttcaa tgaaactaca attgcaaatc aagttattgt agatgattat 960
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<210> 2
<211> 437
<212> PRT

<213> Staphylococcus aureus

<400> 2

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Ile Glu Asn Tyr Val Phe Thr Glu Val Ala Leu Arg Asn Lys Gly Ile
        35                  40                  45
Lys Ile Leu Pro Phe Gly Ala Asn Asn Ile Lys Glu Asp Met Val Val
    50                  55                  60
Ile Gln Gly Asn Ala Phe Ala Ser Ser His Glu Glu Ile Val Arg Ala
65                  70                  75                  80
His Gln Leu Lys Leu Asp Val Val Ser Tyr Asn Asp Phe Leu Gly Gln
                85                  90                  95
Ile Ile Asp Gln Tyr Thr Ser Val Ala Val Thr Gly Ala His Gly Lys
            100                 105                 110
Thr Ser Thr Thr Gly Leu Leu Ser His Val Met Asn Gly Asp Lys Lys
        115                 120                 125
Thr Ser Phe Leu Ile Gly Asp Gly Thr Gly Met Gly Leu Pro Glu Ser
    130                 135                 140
Asp Tyr Phe Ala Phe Glu Ala Cys Glu Tyr Arg Arg His Phe Leu Ser
145                 150                 155                 160
Tyr Lys Pro Asp Tyr Ala Ile Met Thr Asn Ile Asp Phe Asp His Pro
                165                 170                 175
Asp Tyr Phe Lys Asp Ile Asn Asp Val Phe Asp Ala Phe Gln Glu Met
            180                 185                 190
Ala His Asn Val Lys Lys Gly Ile Ile Ala Trp Gly Asp Asp Glu His
        195                 200                 205
Leu Arg Lys Ile Glu Ala Asp Val Pro Ile Tyr Tyr Tyr Gly Phe Lys
    210                 215                 220
Asp Ser Asp Asp Ile Tyr Ala Gln Asn Ile Gln Ile Thr Asp Lys Gly
225                 230                 235                 240
Thr Ala Phe Asp Val Tyr Val Asp Gly Glu Phe Tyr Asp His Phe Leu
                245                 250                 255
Ser Pro Gln Tyr Gly Asp His Thr Val Leu Asn Ala Leu Ala Val Ile
            260                 265                 270
Ala Ile Ser Tyr Leu Glu Lys Leu Asp Val Thr Asn Ile Lys Glu Ala
        275                 280                 285
Leu Glu Thr Phe Gly Gly Val Lys Arg Arg Phe Asn Glu Thr Thr Ile
    290                 295                 300
Ala Asn Gln Val Ile Val Asp Asp Tyr Ala His His Pro Arg Glu Ile
305                 310                 315                 320
Ser Ala Thr Ile Asp Thr Ala Arg Lys Lys Tyr Pro His Lys Glu Val
                325                 330                 335
Val Ala Val Phe Gln Pro His Thr Phe Ser Arg Thr Gln Ala Phe Leu
            340                 345                 350
Asn Glu Phe Ala Glu Ser Leu Cys Lys Ala Asp Arg Val Phe Leu Cys
        355                 360                 365
Glu Ile Phe Gly Ser Ile Arg Glu Asn Ser Gly Ala Leu Thr Ile Gln
    370                 375                 380
Asp Leu Ile Asp Lys Ile Gly Gly Ala Ser Phe Ile Asn Glu Asp Leu
385                 390                 395                 400
Ile Asn Val Leu Glu Gln Phe Asp Asn Ala Val Val Leu Phe Met Gly
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Ala Gly Asp Ile Gln Lys Leu Gln Asn Ala Tyr Leu Asp Lys Leu Gly
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<213> Staphylococcus aureus

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ccatacagtt ttaaatgcat tagctgtaat tgcgattagt tatttagaga agctagatgt     180
tacaaatatt aaagaagcat tagaaacgtt tggtggtgtt aaacgtcgtt tcaatgaaac     240
tacaattgca aatcaagtta ttgtagatga ttatgcacac catccaagag aaattagtgc     300
tacaattgac acagcacgaa agaaatatcc acataaagaa gttgttgcag tatttcaacc     360
acacactttc tctagaacac aagcattttt aaatgaattt gcagaaagtt taagtaaagc     420
agatcgtgta ttcttatgtg aaatttttgg atcaattaga gaaaatactg gcgcattaac     480
gatacaagat ttaattgata aaattgaagg tgcatcgtta attaatgaag attctattaa     540
tgtattagaa caatttgata atgctgttgt tttatttatg ggtgcaggtg atattcaaaa     600
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<212> PRT
<213> Staphylococcus aureus

<400> 4

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 1               5                  10                  15
Lys Gly Thr Ala Val Asp Val Tyr Val Asp Gly Glu Phe Tyr Asp His
            20                  25                  30
Phe Leu Ser Pro Gln Tyr Gly Asp His Thr Val Leu Asn Ala Leu Ala
        35                  40                  45
Val Ile Ala Ile Ser Tyr Leu Glu Lys Leu Asp Val Thr Asn Ile Lys
    50                  55                  60
Glu Ala Leu Glu Thr Phe Gly Gly Val Lys Arg Arg Phe Asn Glu Thr
65                  70                  75                  80
Thr Ile Ala Asn Gln Val Ile Val Asp Asp Tyr Ala His His Pro Arg
                85                  90                  95
Glu Ile Ser Ala Thr Ile Asp Thr Ala Arg Lys Lys Tyr Pro His Lys
            100                 105                 110
Glu Val Val Ala Val Phe Gln Pro His Thr Phe Ser Arg Thr Gln Ala
        115                 120                 125
Phe Leu Asn Glu Phe Ala Glu Ser Leu Ser Lys Ala Asp Arg Val Phe
    130                 135                 140
Leu Cys Glu Ile Phe Gly Ser Ile Arg Glu Asn Thr Gly Ala Leu Thr
145                 150                 155                 160
Ile Gln Asp Leu Ile Asp Lys Ile Glu Gly Ala Ser Leu Ile Asn Glu
                165                 170                 175
Asp Ser Ile Asn Val Leu Glu Gln Phe Asp Asn Ala Val Val Leu Phe
            180                 185                 190
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Met Gly Ala Gly Asp Ile Gln Lys Leu Gln Asn Ala Tyr Leu Asp Lys
195 200 205
Leu Gly Met Lys Asn Ala Phe
210 215

B1

<210> 5
<211> 19
<212> DNA
<213> Staphylococcus aureus

<400> 5
cttcattaat gaacgatgc 19

<210> 6
<211> 19
<212> DNA
<213> Staphylococcus aureus

<400> 6
gttacaaata ttaaagaag 19